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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

U.S. PATENT DOCUMENTS

Examiner	Cite No.[1]	Document Number: Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PP	AA	3,730,844	5/1/73	Gilham et al.	
	AB	3,849,137	11/19/74	Barzynski et al.	
	AC	3,862,056	1/21/75	Hartman	
	AD	3,939,350	2/17/78	Kronick et al.	
	AE	4,072,576	2/7/78	Arwin et al.	
	AF	4,121,222	10/17/78	Diebold et al.	
	AG	4,180,739	12/25/79	Abu-Shumays	
	AH	4,216,245	8/5/80	Johnson	
	AI	4,238,757	12/9/80	Schenck	
	AJ	4,269,933	5/26/81	Pazos	
	AK	4,314,821	2/9/82	Rice	
	AL	4,327,073	4/27/82	Huang	
	AM	4,339,528	7/13/82	Goldman	
	AN	4,342,905	8/3/82	Fujii et al.	
	AO	4,373,071	2/8/83	Itakura	
	AP	4,395,486	7/26/83	Wilson et al.	
	AQ	4,405,771	9/20/83	Jagur	
	AR	4,444,878	4/24/84	Paulus	
	AS	4,444,892	4/24/84	Malmros	
	AT	4,448,534	5/15/84	Wertz et al.	
	AU	4,458,066	7/3/84	Caruthers et al.	
	AV	4,477,556	10/16/84	Dueber et al.	
	AW	4,478,967	10/23/84	Eian et al.	
	AX	4,483,920	11/20/84	Gillespie et al.	
	AY	4,500,707	2/19/85	Caruthers et al.	
	AZ	4,500,919	2/19/85	Schreiber	
	BA	4,516,833	5/14/85	Fusek	
	BB	4,517,338	5/14/85	Urdea et al.	
	BC	4,533,682	8/6/85	Tortorello et al.	
	BD	4,537,861	8/27/85	Elings et al.	
	BE	4,542,102	9/17/85	Dattagupta et al.	
✓	BF	4,555,490	11/26/85	Merril	

Examiner Signature		Date Considered	2/24/03

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Sheet 2 of 36

Complet if Kn wn	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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PP	BG	4,556,643	12/3/85	Paau et al.	
	BH	4,562,157	12/31/85	Lowe et al.	
	BI	4,563,419	1/7/86	Ranki et al.	
	BJ	4,569,967	2/11/86	Kornreich et al.	
	BK	4,580,895	4/8/86	Patel	
	BL	4,584,277	4/22/86	Ullman	
	BM	4,588,682	5/13/86	Groet et al.	
	BN	4,591,570	5/27/86	Chang	
	BO	4,598,049	7/1/86	Zelinka et al.	
	BP	4,613,566	9/23/86	Potter	
	BQ	4,624,915	11/25/86	Schindler et al.	
	BR	4,626,684	12/2/86	Landa	
	BS	4,631,211	12/23/86	Houghten	
	BT	4,637,861	1/20/87	Krull et al.	
	BU	4,656,127	4/7/87	Mundy	
	BV	4,670,380	6/2/87	Dattagupta	
	BW	4,677,054	6/30/87	White et al.	
	BX	4,681,859	7/21/87	Kramer	
	BY	4,683,195	7/28/87	Mullis et al.	
	BZ	4,683,202	7/28/87	Mullis	
	CA	4,689,405	8/25/87	Frank et al.	
	CB	4,704,353	11/3/87	Humphries et al.	
	CC	4,711,955	12/8/87	Ward et al.	
	CD	4,713,326	12/15/87	Dattagupta et al.	
	CE	4,713,347	12/15/87	Mitchell et al.	
	CF	4,715,413	12/29/87	Backlund et al.	
	CG	4,715,929	12/29/87	Ogawa	
	CH	4,716,106	12/29/87	Chiswell	
	CI	4,719,179	1/12/88	Barany	
	CJ	4,719,615	1/12/88	Feyrer et al.	
✓	CK	4,722,906	2/2/88	Guire	

Examiner Signature		Date Considered	2/27/03

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Sheet 3 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

U.S. PATENT DOCUMENTS

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	CL	4,728,502	3/1/88	Hamill	
	CM	4,728,591	3/1/88	Clark et al.	
	CN	4,731,325	3/15/88	Palva et al.	
	CO	4,737,344	4/12/88	Koizumi et al.	
	CP	4,755,458	7/5/88	Rabbani et al.	
	CQ	4,758,727	7/19/88	Tomei et al.	
	CR	4,762,881	8/9/88	Kauer	
	CS	4,766,062	8/23/88	Diamond et al.	
	CT	4,767,700	8/30/88	Wallace	
	CU	4,777,019	10/11/88	Dandekar	
	CV	4,780,504	10/25/88	Buendia et al.	
	CW	4,786,170	11/22/88	Groebler	
	CX	4,786,684	11/22/88	Glass	
	CY	4,794,150	12/27/88	Steel	
	CZ	4,808,508	2/28/89	Platzer	
	DA	4,810,869	3/7/89	Yabe et al.	
	DB	4,811,062	3/7/89	Tabata et al.	
	DC	4,811,218	3/7/89	Hunkapiller et al.	
	DD	4,812,512	3/14/89	Buendia et al.	
	DE	4,820,630	4/11/89	Taub	
	DF	4,822,566	4/18/89	Newman	
	DG	4,833,092	5/23/89	Geysen	
	DH	4,844,617	7/4/89	Kelderman et al.	
	DI	4,846,552	7/11/89	Veldkamp et al.	
	DJ	4,849,513	7/18/89	Smith et al.	
	DK	4,855,225	8/8/89	Fung et al.	
	DL	4,865,990	9/12/89	Stead et al.	
	DM	4,868,103	9/19/89	Stavrianopoulos et al.	
	DN	4,874,500	10/17/89	Madou et al.	
	DO	4,877,745	10/31/89	Hayes et al.	
	DP	4,886,741	12/12/89	Schwartz	

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Sheet 4 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

U.S. PATENT DOCUMENTS

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PP	DQ	4,888,278	12/19/89	Singer et al.	
	DR	4,921,805	5/1/90	Gebeyehu et al.	
	DS	4,923,901	5/8/90	Koester et al.	
	DT	4,925,785	5/15/90	Wang et al.	
	DU	4,931,384	6/5/90	Layton et al.	
	DV	4,946,942	8/7/90	Fuller et al.	
	DW	4,965,188	10/23/90	Mullis et al.	
	DX	4,973,493	11/27/90	Guire	
	DY	4,979,959	12/25/90	Guire	
	DZ	4,981,783	1/1/91	Augenlicht	
	EA	4,981,985	1/1/91	Kaplan et al.	
	EB	4,984,100	1/8/91	Takayama et al.	
	EC	4,987,065	1/22/91	Stavrianopoulos et al.	
	ED	4,988,617	1/29/91	Landegren et al.	
	EE	4,992,383	2/12/91	Farnsworth	
	EF	4,994,373	2/19/91	Stavrianopoulos et al.	
	EG	5,002,867	3/26/91	Macevicz	
	EH	5,006,464	4/9/91	Chu et al.	
	EI	5,011,770	4/30/91	Kung et al.	
	EJ	5,013,669	5/7/91	Peters, Jr. et al.	
	EK	5,021,550	6/4/91	Zeiger	
	EL	5,026,773	6/25/91	Steel	
	EM	5,026,840	6/25/91	Dattagupta et al.	
	EN	5,028,525	7/2/91	Gray et al.	
	EO	5,028,545	7/2/91	Soini	
	EP	5,037,882	8/6/91	Steel	
	EQ	5,043,265	8/27/91	Tanke et al.	
	ER	5,047,524	9/10/91	Andrus et al.	
	ES	5,064,754	11/12/91	Mills	
	ET	5,077,085	12/31/91	Schnur et al.	
✓	EU	5,077,210	12/31/91	Eigler et al.	

Examiner Signature		Date Considered	2/27/03

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Sheet 5 of 36

Complet if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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PP	EV	5,079,600	1/7/92	Schnur et al.	
	EW	5,081,584	1/14/92	Omichinski et al.	
	EX	5,082,830	1/21/92	Brakel at al.	
	EY	5,091,652	2/25/92	Mathies et al.	
	EZ	5,096,807	3/17/92	Leaback	
	FA	5,100,626	3/31/92	Levin	
	FB	5,100,777	3/31/92	Chang	
	FC	5,112,962	5/12/92	Letsinger et al.	
	FD	5,141,813	8/25/92	Nelson	
	FE	5,143,854	9/1/92	Pirrung et al.	
	FF	5,149,625	9/22/92	Church et al.	
	FG	5,153,319	10/6/92	Caruthers et al.	
	FH	5,164,319	11/17/92	Hafeman et al.	
	FI	**5,171,534**	**12/15/92**	**Smith et al.**	
	FJ	5,171,695	12/15/92	Ekins	
	FK	5,188,963	2/23/93	Stapleton	
	FL	5,192,980	3/9/93	Dixon et al.	
	FM	5,200,051	4/6/93	Cozzette et al.	
	FN	5,202,231	4/13/93	Drmanac et al.	
	FO	5,206,137	4/27/93	Ip et al.	
	FP	5,215,882	6/1/93	Bahl et al.	
	FQ	5,215,889	6/1/93	Schultz	
	FR	5,219,726	6/15/93	Evans	
	FS	5,225,326	7/6/93	Bresser et al.	
	FT	5,232,829	8/3/93	Longiaru et al.	
	FU	5,235,028	8/10/93	Barany et al.	
	FV	**5,242,794**	**9/7/93**	**Whiteley et al.**	
	FW	5,242,974	9/7/93	Holmes	
	FX	5,252,743	10/12/93	Barrett et al.	
	FY	5,256,549	10/26/93	Urdea et al.	
✓	FZ	5,258,506	11/2/93	Urdea et al.	
	GA	5,306,641	4/26/94	Saccocio	

Examiner Signature		Date Considered	2/27/03

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Sheet 6 of 36

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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
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PP	GB	5,310,893	5/10/94	Erlich et al.	
	GC	5,324,633	6/28/94	Fodor et al.	
	GD	5,328,824	7/12/94	Ward et al.	
	GE	5,348,855	9/20/94	Dattagupta et al.	
	GF	5,384,261	1/24/95	Winkler et al.	
	GG	5,405,783	4/11/95	Pirrung et al.	
	GH	5,424,186	6/13/95	Fodor et al.	
	GI	5,424,188	6/13/95	Schneider et al.	
	GJ	5,432,099	6/11/95	Ekins	
	GK	5,436,327	7/25/95	Southern et al.	
	GL	5,445,934	8/29/95	Fodor et al.	
	GM	5,447,841	9/5/95	Gray et al.	
	GN	5,474,796	12/12/95	Brennan	
	GO	5,486,452	1/23/96	Gordon et al.	
	GP	5,489,507	2/6/96	Chehab	
	GQ	5,489,678	2/6/96	Fodor et al.	
	GR	5,492,806	2/20/96	Drmanac et al.	
	GS	5,494,810	2/27/96	Barany et al.	
	GT	5,510,270	4/23/96	Fodor et al.	
	GU	5,521,065	~~5/28/96~~	Whiteley et al.	
	GV	5,525,464	6/11/96	Drmanac et al.	
	GW	5,527,681	6/18/96	Holmes	
	GX	5,552,270	9/3/96	Khrapko et al.	
	GY	5,556,961	9/17/96	Foote et al.	
	GZ	5,561,071	10/1/96	Hollenberg et al.	
	HA	5,569,584	10/29/96	Augenlicht	
	HB	5,571,639	11/5/96	Hubbell et al.	
	HC	5,593,839	1/14/97	Hubbell et al.	
	HD	5,599,720	2/4/97	Ekins	
	HE	5,604,099	2/18/97	Erlich et al.	
✓	HF	5,643,728	7/1/97	Slater et al.	
	HG	5,653,939	8/5/97	Hollis et al.	

Examiner Signature		Date Considered	2/27/03

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PP	HH	5,667,667	9/16/97	Southern	
	HI	5,667,972	9/16/97	Drmanac et al.	
	HJ	5,695,940	12/9/97	Drmanac et al.	
	HK	5,698,393	12/16/97	Macioszek et al.	
	HL	5,700,637	12/23/97	Southern	
	HM	5,707,806	1/13/98	Shuber	
	HN	**5,744,101**	**4/28/98**	**Fodor et al.**	
	HO	5,744,305	4/28/98	Fodor et al.	
	HP	**5,753,788**	**5/19/98**	**Fodor et al.**	
	HQ	**5,770,456**	**6/23/98**	**Holmes**	
	HR	5,776,737	7/7/98	Dunn	
	HS	5,777,888	7/7/98	Rine et al.	
	HT	5,800,992	9/1/98	Fodor et al.	
	HU	5,807,522	9/15/98	Brown et al.	
	HV	5,830,645	11/3/98	Pinkel et al.	
	HW	**5,837,832**	**11/17/98**	**Chee et al.**	
	HX	5,843,767	12/1/98	Beattie	
	HY	5,846,708	12/8/98	Hollis et al.	
	HZ	5,869,237	2/9/99	Ward et al.	
	IA	5,871,697	2/16/99	Rothberg et al.	
	IB	**5,889,165**	**3/30/99**	**Fodor et al.**	
	IC	5,972,619	10/26/99	Drmanac et al.	
	ID	6,018,041	1/25/00	Drmanac et al.	
	IE	6,025,136	2/15/00	Drmanac et al.	
	IF	6,040,166	3/21/00	Erlich et al.	
	IG	6,054,270	4/25/00	Southern	
	IH	**6,124,102**	**9/26/00**	**Fodor et al.**	
	II	**6,200,748**	**3/13/01**	**Smith et al.**	
	IJ	**6,225,625 B1**	**5/1/01**	**Pirrung et al.**	
	IK	**6,261,776 B1**	**7/17/01**	**Pirrung et al.**	
	IL	**6,291,183 B1**	**9/18/01**	**Pirrung et al.**	
	IM	**6,310,189 B1**	**10/30/01**	**Fodor et al.**	
✓	**IN**	**6,329,143 B1**	**12/11/01**	**Stryer et al.**	

Examiner Signature		Date Considered	2/27/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

U.S. PATENT DOCUMENTS

Examiner	Cite No.[1]	Document Number: Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PP	IO	6,346,413 B1	2/12/02	Fodor et al.	
	IP	6,403,957 B1	6/11/02	Fodor et al.	
✓	IQ	6,406,844 B1	6/18/01	Fodor et al.	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]	Number[4]	Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
PP	IR	EP	046 083		2/17/82			☐
	IS	EP	046 430		2/24/82			☐
	IT	EP	063 810		3/5/86			☐
	IU	EP	088 636		9/14/83			☐
	IV	EP	103 197		3/21/84			☐
	IW	EP	127 438		12/5/84			☐
	IX	EP	130 523		6/1/88			☐
	IY	EP	142 299		12/19/90			☐
	IZ	EP	171 150		3/25/92			☐
	JA	EP	173 339		1/22/92			☐
	JB	EP	174 879		3/19/86			☒
	JC	EP	185 547		6/3/92			☐
	JD	EP	194 132		9/10/86			☐
	JE	EP	225 807		10/19/94			☐
	JF	EP	228 075		7/8/87			☐
	JG	EP	228 310		10/26/88			☐
	JH	EP	232 967		4/28/93			☐
	JI	EP	233 403		8/26/87			☐
	JJ	EP	235 726		5/19/93			☐
	JK	EP	237 362		3/11/92			☐
	JL	EP	245 662		11/19/87			☐
✓	JM	EP	260 634		6/10/92			☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 9 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

FOREIGN PATENT DOCUMENTS

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pp	JN	EP	266 881		5/11/88			☐
	JO	EP	268 237		5/28/88			☐
	JP	EP	281 927		9/14/88			☐
	JQ	EP	288 310		10/26/88			☐
	JR	EP	304 202		2/22/89			☐
	JS	EP	307 476		3/22/89			☐
	JT	EP	319 012		6/7/89			☐
	JU	EP	328 256		8/16/89			☐
	JV	EP	333 561		9/20/89			☐
	JW	EP	337 498		10/18/89			☐
	JX	EP	373 203		6/20/90			☐
	JY	EP	386 229		4/5/90			☐
	JZ	EP	392 546		10/17/90			☐
	KA	EP	400 920		12/5/90			☐
	KB	EP	476 014		8/31/94			☐
	KC	EP	535 242		9/3/97			☐
	KD	EP	619 321		1/7/99			☐
	KE	EP	717 113		6/19/96			☐
	KF	EP	721 016		7/10/96			☐
	KG	EP	848 067		6/17/98			☐
	KH	WO WIPO	84/03151		8/16/84			☐
	KI	WO	84/03564		9/13/84			☐
	KJ	WO	85/01051		3/14/85			☐
	KK	WO	86/00991		2/13/86			☐
	KL	WO	86/06487		11/6/86			☐
	KM	WO	87/05942		10/8/87			☐
	KN	WO	88/04777		6/30/88			☐
	KO	WO	88/01302		6/3/93			☐
	KP	WO	88/01058		2/11/88			☐
	KQ	WO	89/05616		6/29/89			☐
	KR	WO	89/08834		9/21/89			☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
~~First Named Inventor~~	~~Fodor~~
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

FOREIGN PATENT DOCUMENTS

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PP	KS	WO WIPO	89/10977	11/16/89			☐
	KT	WO	89/11548	11/30/89			☐
	KU	WO	89/12819	12/28/89			☐
	KV	WO	90/00626	1/25/90			☐
	KW	WO	90/00887	2/8/90			☐
	KX	WO	90/03382	4/5/90			☐
	KY	WO	90/04652	5/3/90			☐
	KZ	WO	90/05789	5/31/90			☐
	LA	WO	90/07582	7/12/90			☐
	LB	WO	90/15070	2/13/90			☐
	LC	WO	91/00868	1/24/91			☐
	LD	WO	91/04266	4/4/91			☐
	LE	WO	91/07087	5/30/91			☐
	LF	WO	92/10588	6/25/92			☐
	LG	WO	92/10092	6/25/92			☐
	LH	WO	92/16655	1/10/92			☐
	LI	WO	93/02992	2/3/93			☐
	LJ	WO	93/09668	5/27/93			☐
	LK	WO	93/11262	6/30/93			☐
	LL	WO	93/17126	9/2/93			☐
	LM	WO	93/22456	11/11/93			☐
	LN	WO	93/22480	11/11/93			☐
	LO	WO	95/00530	1/5/95			☐
	LP	WO	95/11995	5/4/95			☐
	LQ	WO	95/33846	12/14/95			☐
	LR	WO	96/23078	8/1/96			☐
	LS	WO	97/10365	3/20/97			☐
	LT	WO	97/17317	5/15/97			☐
	LU	WO	97/19410	5/29/97			☐
	LV	WO	97/27317	7/13/97			☐
	LW	WO	97/29212	8/14/97			☐

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Sheet 11 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

FOREIGN PATENT DOCUMENTS

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PP	LX	WO WIPO	97/31256	8/28/97			☐
	LY	WO	97/45559	12/4/97			☐
	LZ	WO	98/03673	1/29/98			☐
	MA	WO	98/31836	7/23/98			☐
	MB	CA	1284931	6/18/91			☐
	MC	GB	8810400.5 (priority for WO 89/10977)	5/3/88			☐
	MD	GB	2156074	3/15/88			☐
	ME	GB	2196476	4/27/88			☐
	MF	GB	2233654	1/16/91			☐
	MG	GB	2248840	9/1/92			☐
	MH	DE	3505287	3/15/88			abst. only
	MI	DE	2242394	3/14/74			abst. only
	MJ	DE	3440141	5/7/86			abst. only
	MK	**DE**	**4013588**	**11/14/91**			**abst only**
	ML	**DE**	**2612359**	**9/29/77**			**abst only**
	MM	FR	2559783	3/15/88			abst. only
	MN	Norway	P 913186	8/15/91			abst. only
	MO	JP	49-110601	10/22/74			abst. only
	MP	JP	60-248669	12/9/85			abst. only
	MQ	JP	63-084499	4/15/88			abst. only
	MR	JP	63-223557	9/19/89			abst. only
	MS	JP	1-233447	5/1/90			abst. only
	MT	**JP**	**2-116735**	**5/1/90**			**abst only**
	MU	YU	18617/87	9/18/87			☒
	MV	YU	P-570/87	4/1/87			☒

Examiner Signature		Date Considered	2/27/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 12 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
PP	MW	Abbott et al., "Manipulation of the Wettability of Surfaces on the 0.1 – to 1 –Micrometer Scale Through Micromachining and Molecular Self-Assembly," Science, 257:1380-1382 (1992)	
	MX	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," Science, 252(5013):1651-1656 (1991)	
	MY	Adams et al., "Photolabile Chelators That "Cage" Calcium with Improved Speed of Release and Pre-Photolysis Affinity," J. Gen. Physiol., pg. 9a (12/86)	
	MZ	Adams et al., "Biologically Useful Chelators That Take Up Ca2+ upon Illumination," J. Am. Chem. Soc., 111:7957-7968 (1989)	
	NA	Ajayaghosh et al., "Solid-Phase Synthesis of *N*-Methyl- and *N*-Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4((alkylamino)methyl)benzamido)methyl)polystyrene Resin," J.Org.Chem., 55(9):2826-2829 (1990)	
	NB	Ajayaghosh et al., "Solid-phase synthesis of C-terminal peptide amides using a photoremovable α-methylphenacylamido anchoring linkage," Proc. Ind. Natl. Sci (Chem.Sci.), 100(5):389-396 (1988)	
	NC	Ajayaghosh et al., "Polymer-supported Solid-phase Synthesis of C-Terminal Peptide N-Methylamides Using a Modified Photoremovable 3-Nitro-4-N-methylaminomethylpolystyrene Support," Ind.J.Chem., 27B:1004-1008 (1988)	
	ND	Ajayaghosh et al., "Polymer-Supported Synthesis of Protected Peptide Segments on a Photosensitive o-Nitro(α-Methyl)Bromobenzyl Resin," Tetrahedron, 44(21):6661-6666 (1988)	
	NE	Amit et al., "Photosensitive Protecting Groups of Amino Sugars and Their Use in Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino and 6-Nitroveratryloxycarbonylamino Derivatives," J.Org.Chem, 39(2):192-196 (1974)	
	NF	Amit et al., "Photosensitive Protecting Groups – A Review," Israel J. Chem., 12(1-2):103-113 (1974)	
	NG	Anand et al., "A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage," Nuc. Acids Res., 18(8):1951-1956 (1990).	
	NH	Anderson et al., "Quantitative Filter Hybridisation," chapter 3 from *Nucleic Acid Hybridization a practical approach*, pgs. 73-111, Hames et al., eds., IRL Press (1985).	
	NI	Applied Biosystems, Model 431A Peptide Synthesizer User's manual, Sections 2 and 6, (8/15/89)	
	NJ	Arnold et al., "A Novel Universal Support for DNA & RNA Synthesis," abstract from Federation Proceedings, 43(7): abstract no. 3669 (1984)	

Examiner Signature		Date Considered	2/27/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 13 of 36

Complete if Known	
Application Number	10/014,716
Filing Dat	December 14, 2001
First Named Inv ntor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
PP	NK	Atherton et al., Solid Phase Peptide Synthesis: A Practical Approach, IRL Press, (1989), tbl. of cont., pp. vii-ix	
	NL	Augenlicht et al., "Cloning and Screening of Sequences Expressed in a Mouse Colon Tumor," Cancer Research, 42:1088-1093 (1982)	
	NM	Augenlicht et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate *in Vitro*," Cancer Res., 47:6017-6021 (1987)	
	NN	Bains, W., "Hybridization Methods for DNA Sequencing," Genomics, 11(2):294-301 (1991)	
	NO	Bains et al., "A Novel Method for Nucleic Acid Sequence Determination," J.Theor.Biol., 135:303-307 (1988)	
	NP	Bains, W., "Alternative Routes Through the Genome," Biotechnology, 8:1251-1256 (1988)	
	NQ	Balachander et al., "Functionalized Siloxy-Anchored Monolayers with Exposed Amino, Azido, Bromo, or Cyano Groups," Tetrahed. Ltrs., 29(44):5593-5594 (1988)	
	NR	Baldwin et al., "New Photolabile Phosphate Protecting Groups," Tetrahed., 46(19):6879-6884 (1990)	
	NS	**Ballard et al., "Imaging Genes, Chromosomes and Nuclear Structures Using Laser-Scanning Confocal Microscopy," SPIE, *Bioimaging and Two-Dimensional Spectroscopy*, 1205:1-10, conference held 1/18-19/90, Los Angeles, CA., abstract also included (1990).**	
	NT	Bannwarth et al., "Laboratory Methods, A System for the Simultaneous Chemical synthesis of Different DNA Fragments on Solid Support," DNA, 5(5):413-419 (1986).	
	NU	Bannwarth, W., "Gene Technology: a Challenge for a Chemist," CHIMIA, 41(9):302-317 (1987).	
	NV	Barany, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," PNAS, 88:189-193 (1991).	
	NW	Barltrop et al., "Photosensitive Protective Groups," Chemical Communications, pgs. 822-823 (1966)	
✓	NX	Barinaga, M., "Will 'DNA Chip' Speed Genome Initiative," Science, 253:1489 (1985)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 14 of 36

Complete if Known	
Application Number	10/014,716
Filing Dat	December 14, 2001
First Named Invent r	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
PP	NY	Bart et al., "Microfabricated Electrohydrodynamic Pumps," Sensors and Actuators, A21-A23:193-197 (1990)	
	NZ	Bartsh et al., "Cloning of mRNA sequences from the human colon: Preliminary characterisation of defined mRNAs in normal and neoplastic tissues," Br.J.Can., 54:791-798 (1986)	
	OA	Baum, R., "Fledgling firm targets drug discovery process," Chem. Eng. News, p. 10-11 (1990)	
	OB	Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)	
	OC	Benschop, Chem. Abstracts 114(26):256643 (1991)	
	OD	Bhatia et al., "New Approach To Producing Patterned Biomolecular Assemblies," J. American Chemical Society, 114:4432-4433 (1992)	
	OE	Biorad Chromatography Electrophoresis Immunochemistry Molecular Biology HPLC catalog M 1987 pp. 182	
	OF	Blawas et al., "Step-and-Repeat Photopatterning of Protein Features Using Caged-Biotin-BSA: Characterization and Resolution," Langmuir, 14(15):4243-4250 (1998)	
	OG	Blawas, A.S., "Photopatterning of Protein Features using Caged-biotin-Bovine Serum Albumin," dissertation for Ph.D at Duke University in 1998	
	OH	Bos et al., "Amino-acid substirutions at codon 13 of the N-*ras* oncogene in human acute myeloid leukaemia," Nature, 315:726-730 (1985)	
	OI	Boyle et al., "Differential distribution of long and short interspersed element sequences in the mouse genome: Chromosome karyotyping by fluorescence *in situ* hybridization," PNAS, 87:7757-7761 (1990)	
	OJ	Brock et al., "Rapid fluorescence detection of in situ hybridization with biotinylated bovine herpesvirus-1 DNA probes," J.Veterinary Diagnostic Invest., 1:34-38 (1989)	
	OK	Burgi et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," Anal. Chem., 63:2042-2047 (1991)	
✓	OL	**Burns et al., "Scanning Silt Aperture Confocal Microscopy for Three-Dimensional Imaging," Scanning, 12:156-160 (1990).**	

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PP	OM	Cameron et al., "Photogeneration of Organic Bases from o-Nitrobenzyl-Derived Carbamates," J. Am. Chem. Soc., 113:4303-4313 (1991)	
	ON	Carrano et al., "A High-Resolution, Fluorescence-Based, Semiautomated Method for DNA Fingerprinting," Genomics, 4:129-136 (1989)	
	OO	Caruthers, M.H., "Gene Synthesis Machines: DNA Chemistry and Its Uses," Science, 230:281-285 (1985)	
	OP	Chatterjee et al., "Inducible Alkylation of DNA Using an Oligonucleotide-Quinone Conjugate," Am. J. Chem. Soc., 112:6397-6399 (1990)	
	OQ	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," Science, 274:610-614 (1996)	
	OR	Chehab et al., "Detection of sicle cell anaemia mutation by colour DNA amplification," Lancet, 335:15-17 (1990)	
	OS	Chehab et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," PNAS, 86:9178-9182 (1989)	
	OT	Chetverin et al., "Oligonucleotide Arrays: New Concepts and Possibilities," Biotechnology, 12:1093-1099 (1994).	
	OU	Church et al., "Multiplex DNA sequencing," Science, 240:185-188 (1988).	
	OV	Church et al., "Genomic sequencing," PNAS, 81:1991-1995 (1984).	
	OW	Clevite Corp., Piezoelectric Technology, Data for Engineers	
	OX	Corbett et al., "Reaction of Nitroso Aromatics with Glyoxylic Acid. A New Path to Hydroxamic Acids," J. Org. Chem., 45:2834-2839 (1980)	
	OY	Coulson et al., "Toward a physical map of the genome of the nematode *Caenorhabditis elegans*," PNAS, 83:7821-7825 (1986).	
✓	OZ	Craig et al., "Ordering of cosmid clones covering the Herpes simplex virus type 1 (HSV-1) genome: a test case for fingerprinting by hybridization," Nuc. Acid. Res., 18(9):2653-2660 (1990)	

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PP	PA	Cummings et al., "Photoactivable Fluorophores. 1. Synthesis and Photoactivation of o-Nitrobenzyl-Quenched Fluorescent Carbamates," Tetrahederon Letters, 29(1):65-68 (1988)	
	PB	Dattagupta et al., "Rapid identification of Microorganisms by Nucleic Acid Hybridization after Labeling the Test Sample," Anal. Biochem., 177:85-89 (1989).	
	PC	Dattagupta et al., "Nucleic Acid Hybridization: a Rapid Method for the Diagnosis of Infectious Diseases," *Perspectives in Antiinfective Therapy*, eds. Jackson et al., pages 241-247 (1988).	
	PD	Dower et al., "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries," Ann. Rep. Med. Chem., 26:271-280 (1991).	
	PE	Diggelmann, "Investigating the VLSIPS synthesis process," 9/9/94	
	PF	Di Mauro et al., "DNA Technology in Chip Construction," Adv. Mater., 5(5):384-386 (1993)	
	PG	Drmanac et al., "An Algorithm for the DNA Sequence Generation from k-Tuple Word Contents of the Minimal Number of Random Fragments," J. Biomol.Struct. Dyn., 8(5):1085-1102 (1991).	
	PH	Drmanac et al., "Partial Sequencing by Oligo-Hybridization Concept and Applications in Genome Analysis," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 60-74 (1990)	
	PI	Drmanac et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 47-59 (1990)	
	PJ	Drmanac et al., "Laboratory Methods, Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," DNA and Cell Biol., 9(7):527-534 (1990)	
	PK	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: theory of the Method," Genomics, 4:114-128 (1989)	
	PL	Dramanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," abstract of presentation given at Cold Spring Harbor Symposium on Genome Mapping and Sequencing, 4/27/88 thru 5/1/88	
	PM	Dulcey et al., "Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies," Science, 252:551-554 (1991)	
✓	PN	Duncan et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," Analytical Biochemistry, 169:104-108 (1988)	

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PP	PO	Effenhauser et al., "Glass Chips for High-speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," Anal. Chem., 65:2637-2642 (1993)	
	PP	Effenhauser et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," Anal. Chem., 66:2949-2953 (1994)	
	PQ	Ekins et al., "High Specific Activity Chemiluminescent and Fluorescent Markers: their Potential Application to High Sensitivity and 'Multi-analyte' Immunoassays," J. Bioluminescence Chemiluminescence, 4:59-78 (1989)	
	PR	Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using dual Fluorescent-Labelled Antibodies," Anal. Chemica Acta, 227:73-96 (1989)	
	PS	Ekins et al., "Multianalyte Microspot Immunoassay-Microanalytical 'Compact Disk' of the Future," Clin. Chem., 37(11):1955-1967 (1991)	
	PT	Ekins, R.P., "Multi-Analyte immunoassay*," J. Pharmaceut. Biomedical Analysis, 7(2):155-168 (1989)	
	PU	Ekins et al., "Fluorescence Spectroscopy and its Application to a New Generation of High Sensitivity, Multi-Microspot, Multianalyte, Immunoassay," Clin. Chim. Acta, 194:91-114 (1990)	
	PV	Elder, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy," in *Maximum Entropy and Bayesian Methods*, eds. Mohammad-Djafari and Demoment, Kluwer, Dordrecht, pp. 363-371 (1992).	
	PW	Ellis, R.W., "The Applications of Synthetic Oligonucleotides to Molecular Biology," Pharmaceutical Research, 3(4):195-207 (1986).	
	PX	Evans et al., "Microfabrication for Automation of Molecular processes in Human Genome Analysis," Clin. Chem., 41(11):1681 (1995)	
	PY	Evans et al., "Physical mapping of complex genomes by cosmid multiplex analysis," PNAS, 86:5030-5034 (1989)	
	PZ	Ezaki et al., "Small-Scale DNA Preparation for Rapid Genetic Identification of *Campylobacter* Species without Radioisotope," Microbiol. Immunology, 32(2):141-150 (1988)	
	QA	Fan et al., "Mapping small DNA sequences by fluorescence *in situ* hybridization directly on banded metaphase chromosomes," PNAS, 87(16):6223-6227 (1990)	
✓	QB	Fan et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," Anal. Chem., 66:177-184 (1994)	

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PP	QC	Feinberg et al., ADDENDUM to "A technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," Anal. Biochem., 137:266-267 (1984).	
	QD	Fettinger et al., "Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model," Sensors and Actuators, B17:19-25 (1993)	
	QE	Flanders et al., "A new interferometric alignment technique," App. Phys. Ltrs., 31(7):426-429 (1977)	
	QF	Fodor et al., "Multiplexed biochemical assays with biological chips," Nature, 364:555-556 (1993)	
	QG	Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1991)	
	QH	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," chapter 13pgs. 206-228 from *Molecular Modeling of Nucleic Acids*, ACS Symposium Series 682, 4/13-17/97, Leontis et al., eds.	
	QI	Frank et al., "Simultaneous Multiple Peptide Synthesis Under Continuous flow Conditions on Cellulose Paper Discs as Segmental Solid Supports," Tetrahedron, 44(19):6031-6040 (1988)	
	QJ	Frank et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids," Bio/Technology, 6:1211-1212 (1988)	
	QK	Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology," Methods in Enzymology, 154:221-250 (1987)	
	QL	**Frank et al., "Facile and rapid 'spot-synthesis' of large numbers of peptides on membrane sheets," Proc. 21st European Pept. Symp., Platja D'Oro, Spain, 9/2-8/90.**	
	QM	Fuhr et al., "Travelling wave-driven microfabricated electrohydrodynamic pumps for liquids," J. Micromech. Microeng., 4:217-226 (1994)	
	QN	Fuller et al., "Urethane-Protected Amino Acid *N*-Carboxy Anhydrides and Their Use in Peptide Synthesis," J. Amer. Chem. Soc., 112(20):7414-7416 (1990)	
	QO	Furka et al., "General method for rapid synthesis of multicomponent peptide mixtures," Int. J. Peptide Protein Res., 37:487-493 (1991)	
✓	QP	Furka et al., "Cornucopia of Peptides by Synthesis," 14th Int.Congress of Biochem. abst.# FR:013, 7/10-15/88 Prague, Czechoslovakia	

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PP	QQ	Furka et al., "More Peptides by Less Labour," abst. 288, Int. Symp. Med. Chem., Budapest Hungary 8/15-19/88	
	QR	Gait, eds., pages 1-115 from *Oligonucleotide Synthesis: A Practical Approach,* IRL Press, (1984)	
	QS	Gazard et al., "Lithographic Technique Using Radiation-Induced Grafting of Acrylic Acid into Poly(Methyl Methacrylate) Films," Polymer Engineering and Science, 20(16):1069-1072 (1980)	
	QT	Gergen et al., "Filter replicas and permanent collections of recombinant DNA plasmids," Nuc.Acids Res., 7(8):2115-2137 (1979)	
	QU	Getzoff et al., "Mechanisms of Antibody Binding to a Protein," Science, 235:1191-1196 (1987)	
	QV	Geysen et al., "Strategies for epitope analysis using peptide synthesis," J. Immunol. Meth., 102:259-274 (1987)	
	QW	Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," PNAS, 81:3998-4002 (1984)	
	QX	Geysen et al., "A synthetic strategy for epitope mapping," from Peptides:Chem. & Biol., Proc. of 10th Am. Peptide Symp., 5/23-28/87, pp. 519-523, (1987)	
	QY	Geysen, "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis," Immunol. Today, 6(12):364-369 (1985)	
	QZ	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," from Synthetic Peptides: Approaches to Biological Probes, pp. 19-30, (1989)	
	RA	Geysen et al., "Chemistry of Antibody Binding to a Protein," Science, 235:1184-1190 (1987)	
	RB	Geysen et al., "The delineation of peptides able to mimic assembled epitopes," 1986 CIBA Symp., pp. 130-149	
	RC	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," Mol. Recognit., 1(1):1-10 (1988)	
✓	RD	Geysen et al., "*A Prio Ri* Delineation of a Peptide Which Mimics A Discontinuous Antigenic Determinant," Mol. Immunol., 23(7):709-715 (1986)	

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	RE	Ghosh et al., "Covalent attachment of oligonucleotides to solid supports," Nuc. Acids Res., 15(13):5353-5373 (1987).	
	RF	Gilon et al., "Backbone Cyclization: A New Method for Conferring Conformational Constraint on Peptides," Biopolymers, 31(6):745-750 (1991)	
	RG	Gingeras et al., "Hybridization properties of immobilized nucleic acids," Nuc. Acids Res., 15(13):5373-5390 (87)	
	RH	Gummerlock et al., "RAS Enzyme-Linked Immunoblot Assay Discriminates p21 Species: A Technique to Dissect Gene Family Expression," Anal. Biochem., 180:158-168 (1989)	
	RI	Gurney et al., "Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons," PNAS, 84:3496-3500 (1987)	
	RJ	Haase et al., "Detection of Two Viral Genomes in Single Cells by Double-Label Hybridization in Situ and Color Microradioautography," Science, 227:189-192 (1985)	
	RK	Hacia, et al., "Two color hybridization analysis using high density oligonucleotide arrays and energy transfer dyes," Nuc. Acids Res., 26(16):3865-3866 (1998)	
	RL	Hack, M.L., "Conics Formed to Make Fluid & Industrial Gas Micromachines," Genetic Engineering News, 15(18):1, 29 (1995)	
	RM	Hagedorn et al., "Pumping of Water Solutions in Microfabricated Electrohydrodynamic Systems," from Micro Electro Mechanical Systems conference in Travemunde Germany (1992)	
	RN	Hames et al., *Nuclear acid hybridization, a practical approach*, cover page and table of contents (1985)	
	RO	Hanahan et al., "Plasmid Screening at High Colony Density," Meth. Enzymology, 100:333-342 (1983)	
	RP	Hanahan et al., "Plasmid screening at high colony density," Gene, 10:63-67 (1980)	
	RQ	Haridasan et al., "Peptide Synthesis using Photolytically Cleavable 2-Nitrobenzyloxycarbonyl Protecting Group," Proc. Indian Natn. Sci. Adad., 53A(6):717-728 (1987)	
	RR	Harrison et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," Anal. Chem., 64:1926-1932 (1992)	

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Sheet 21 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	RS	Harrison et al., "Micromachining a Minaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," Science, 261:895-897 (1993)	
	RT	Harrison et al., "Towards minaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors*," Sensors and Actuators, B10:107-116 (1993)	
	RU	Harrison et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system," Analytica Chemica Acta, 283:361-366 (1993)	
	RV	Hellberg et al., "Minimum analogue peptide sets (MAPS) for quantitative structure-activity relationships," Int. J. Peptide Protein Res., 37:414-424 (1991)	
	RW	Hilser et al., "Protein and peptide mobility in capillary zone electrophoresis, A comparison of existing models and further analysis," J. Chromatography, 630:329-336 (1993)	
	RX	Ho et al., "Highly Stable Biosensor Using an Artificial Enzyme," Anal.Chem., 59:536-537 (1987)	
	RY	Hochgeschwender et al., "Preferential expression of a defined T-cell receptor β-chain gene in hapten-specific cytotoxic T-cell clones," Nature, 322:376-378 (1986)	
	RZ	Hodgson, J., "Assays A La Photolithography," Biotech., 9:419 (1991)	
	SA	Hodgson et al., "Hybridization probe size control: optimized 'oligolabelling'," Nuc.Acids Res., 15(15):6295 (1987).	
	SB	**Hoheisel, J.D., "Oligomer-chip technology," Tribtech, 15:465-469 (1997).**	
	SC	Hopman et al., "Bi-color detection of two target DNAs by non-radioactive in situ hybridization*," Histochem., 85:1-4 (1986)	
	SD	Iwamura et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxlic Acids," Tetrahedron Ltrs., 28(6):679-682 (1987)	
	SE	Iwamura et al., "1-(α-Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," Synlett, p. 35-36 (1991)	
	SF	Jacobson et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," Anal. Chem., 66:1107-1113 (1994)	

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Attorney Docket Number	018547-048200US

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PP	SG	Jacobsen et al., "Open Channel Electrochromatography on a Microchip," Anal. chem., 66:2369-2373 (1994)	
	SH	Jacobson et al., "Microchip Capillary Electrophoresis with an Integrated Postcolumn Reactor" Anal. Chem., 66:3472-3476 (1994)	
	SI	Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," Anal. Chem., 66:4127-4132 (1994)	
	SJ	Jacobson et al., "Microfabricated chemical measurement systems," Nature Medicine, 1(10):1093-1096 (1995)	
	SK	Jacobsen et al., "Fused Quartz Substrates for Microchip Electrophoresis," Anal. chem., 67:2059-2063 (1995)	
	SL	Jacobson et al., "High-Speed Separtions on a Microchip," Anal. Chem., 66:1114-1118 (1994)	
	SM	Jacobson et al., "Microchip electrophoresis with sample stacking," Electrophoresis, 16:481-486 (1995)	
	SN	Jayakumari, "Peptide synthesis in a triphasic medium catalysed by papain immobilized on a crosslinked polystyrene support," Indian J. Chemistry, 29B:514-517 (1990)	
	SO	Jovin et al., "Luminescence Digital Imaging Microscopy," Ann. Rev. Biophys. Biophys. Chem., 18:271-308 (1989).	
	SP	Kafatos et al., "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure," Nuc. Acids Res., 7(6):1541-1553 (1979).	
	SQ	Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," Science, 243:187-192 (1989)	
	SR	Kaplan et al., "Photolabile chelators for the rapid photorelease of divalent cations," PNAS, 85:6571-6575 (1988)	
	SS	Karube, "Micro-biosensors based on silicon fabrication technology," chapter 25 from Biosensors:Fundamentals and Applications, Turner et al., eds., Oxford Publ., 1987, pgs. 471-480 (1987)	
✓	ST	Kates et al., "A Novel, Convenient, Three-dimensional Orthogonal Strategy for Solid-Phase Synthesis of Cyclic Peptides 1-3," Tetrahed. Letters, 34(10):1549-1552 (1993)	

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PP	SU	Kerkof et al., "A Procedure for Making Simultaneous Determinations of the Relative Levels of Gene Transcripts in Tissues or Cells," Anal. Biochem., 188:349-355 (1990)	
	SV	Khrapko et al., "An Oligonucleotide hybridization approach to DNA sequencing," FEBS Lett., 256(1,2):118-122 (1989)	
	SW	Khrapko et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," DNA Seq. Map., 1:375-388 (1991).	
	SX	Kidd et al., "α_1-Antitrypsin deficiency detection by direct analysis of the mutation in the gene," Nature, 304:230-234 (1983).	
	SY	Kievits et al., "Rapid subchromosomal localization of cosmids by nonradioactive in situ hybridization," Cytogenetics Cell Genetics, 53(2-3):134-136 (1990)	
	SZ	Kimura et al., "An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle," Biosensors, 4:41-52 (1988)	
	TA	Kimura et al., "An Integrated SOS/FET Multi-Biosensor," Sensors & Actuators, 9:373-387 (1986)	
	TB	Kitazawa et al., "In situ DNA-RNA hybridization using in vivo bromodeoxyuridine-labeled DNA probe," Histochemistry, 92:195-199 (1989)	
	TC	Kleinfeld et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," J. Neurosci., 8(11):4098-4120 (1988)	
	TD	Knight, P., "Materials and Methods/Microsequencers for Proteins and Oligosaccharides," Bio/Tech., 7:1075-76 (1989)	
	TE	Kohara et al., "The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library," Cell, 50:495-508 (1987)	
	TF	Krile et al., "Multiplex holography with chirp-modulated binary phase-coded reference-beam masks," Applied Opt., 18(1):52-56 (1979)	
	TG	Labat, I., "Subfragments as an informative characteristic of the DNA molecule -- computer simulation," research report submitted to the University of Belgrade College of Natural Sciences and Mathematics, (1988)	
↓	TH	Lainer et al., "Human Lymphocyte Subpopulations Identified by Using Three-Color Immunofluorescence and Flow Cytometry Analysis: Correlation of Leu-2, Leu-3, Leu-7, Leu-8, and Leu-11 Clee Surface Antigen Expression," Journal of Immunology, 132(1):151-156 (1984)	

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PP	TI	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," Nature, 354:82-84 (1991)	
	TJ	Lander et al., "Genomic Mapping by Fingerprinting Randon Clones: A Mathematical Analysis," Genomics, 2:231-239 (1988).	
	TK	Laskey et al., "Messenger RNA prevalence in sea urchin embryos measured with cloned cDNAs," PNAS, 77(9):5317-5321 (1980)	
	TL	Lee et al., "synthesis of a Polymer Surface Containing Covalently Attached Triethoxysilane Functionality: Adhesion to Glass," Macromolecules, 21:3353-3356 (1988)	
	TM	Lehrach et al., "Labelling oligonucleotides to high specific activity (I)," Nuc. Acids Res., 17(12):4605-4610 (89)	
	TN	Lehrach et al., "Phage Vectors – EMBL Series," Meth. Enzymology, 153:103-115 (1987)	
	TO	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," Genome Analysis Volume 1: Genetic and Physical Mapping, Cold Spring Harbor Laboratory Press, pages 39-81 (1990).	
	TP	Levy, M.F., "Preparing Additive Printed Circuits," IBM Tech. Discl. Bull., 9(11):1473 (1967)	
	TQ	Lewin, Benjamin, eds., *Genes*, third edition, John Wiley & Sons, cover page, preface and table of contents, (1987).	
	TR	Lichter et al., "High-Resolution Mapping of Human Chromosome 11 by in Situ hybridization with Cosmid Clones," Science, 247:64-69 (1990)	
	TS	Lichter et al., "Fluorescence *in situ* hybridization with *Alu* and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines," PNAS, 87:6634-6638 (1990)	
	TT	Lichter et al., "Rapid detection of human chromosome 21 aberrations by *in situ* hybridization," PNAS, 85:9664-9668 (1988)	
	TU	Lichter et al., "Is non-isotopic *in situ* hybridization finally coming of age," Nature, 345:93-94 (1990)	
J	TV	Lieberman et al., "A Light source Smaller Than the Optical Wavelength," Science, 247:59-61 (1990)	

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PP	TW	Lipshutz et al., "Using Oligonucleotide Probe Arrays To Access Genetic Diversity," BioTech., 19(3):442-7 (1995)	
	TX	Little, P., "Clone maps made simple," Nature, 346:611-612 (1990).	
	TY	Liu et al., "Sequential Injection Analysis in Capillary Format with an Electroosmotic Pump," Talanta, 41(11):1903-1910 (1994)	
	TZ	Lockhart et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," Nat. Biotech., 14:1675-1680 (1996)	
	UA	Logue et al., "General Approaches to Mask Design for Binary Optics," SPIE, 1052:19-24 (1989)	
	UB	Loken et al., "three-color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," Cymoetry, 5:151-158 (1984)	
	UC	Love et al., "Screening of λ Library for Differentially Expressed Genes Using *in Vitro* Transcripts," Anal. Biochem., 150:429-441 (1985)	
	UD	Lowe, C.R., "Biosensors," Trends in Biotech., 2:59-65 (1984)	
	UE	Lowe, C.R., "An Introduction to the Concepts and Technology of Biosensors," Biosensors, 1:3-16 (1985)	
	UF	Lowe, C. R., Biotechnology and Crop Improvement and Protection, BCPC Publications, pp. 131-138 (1986)	
	UG	Lowe et al., "Solid-Phase Optoelectronic Biosensors," Methods in Enzymology, 137:338-347 (1988)	
	UH	Lowe, C.R., "Biosensors," Phil. Tran. R. Soc. Lond., 324:487-496 (1989)	
	UI	Lu et al., "Differential screening of murine ascites cDNA libraries by means of in vitro transcripts of cell-cycle-phase-specific cDNA and digital image processing," Gene, 86:185-192 (1990)	
	UJ	Luo, J. et al., "Improving the fidelity of *Thermus thermophilus* DNA ligase," Nuc.Acids Res., 24(14):3071-3078 (1996).	

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	UK	Lysov et al., "A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides," Doklady Biochem., 303(1-6):436-438 (1989)	
	UL	Lysov et al., "DNA Sequencing by Oligonucleotide Hybridization," First International Conference on Electrophoresis, Supercomputing and the Human Genome, 4/10-13/90 p.157	
	UM	MacDonald et al., "A Rapid ELISA for Measuring Insulin in a Large Number of Research Samples," Metabolism, 38(5):450-452 (1989)	
	UN	Mairanovsky, V.G., "Electro-Deprotection- Electrochemical Removal of Protecting Groups**," Agnew. Chem. Int. Ed. Engl., 15(5):281-292 (1976)	
	UO	Manz et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," Sensors and Actuators, B1:244-248 (1990)	
	UP	Manz et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems, A look into next century's technology or just a fashionable craze?," Trends in Analytical Chem., 10(5):144-149 (1991)	
	UQ	Manz et al., "Planar chips technology for minaturization and integration of separation techniques into monitoring systems, Capillary electrophoresis on a chip," J. Chromatography, 593:253-258 (1992)	
	UR	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," chapter 1, 1-64 (1993)	
	US	Manz et al., "Electroosmotic pumping and electrophoretic separations for minaturized chemical analysis systems," J. Micromech. Microeng., 4:257-265 (1994)	
	UT	Masiakowski et al., "Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line," Nuc. Acids Res., 10(24):7895-7903 (1982)	
	UU	Matsumoto et al., "Preliminary Investigation of Micropumping Based on Electrical Control of Interfacial Tension," IEEE, pgs. 105-110 (1990)	
	UV	Matsuzawa et al., "Containment and growth of neuroblastoma cells on chemically patterned substrates," J. Neurosci. Meth., 50:253-260 (1993)	
	UW	Matthes et al., "Simultaneous rapid chemical synthesis of over one hundred oligonucleotides on a microscale," EMBO J., 3(4):801-805 (1984).	
	UX	McCray et al., "Properties and Uses of Photoreactive Caged Compounds," Ann. Rev. Biophys. Biophys. Chem., 18:239-270 (1989)	

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	UY	McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates," J. American Chem. Soc., 119(22):5081-5090 (1997)	
	UZ	McGillis, VLSI Technology, Sze, eds., Chapter 7, "Lithography," pp. 267-301 (1983)	
	VA	McMurray, J.S., "Solid Phase Synthesis of a Cyclic Peptide Using Fmoc Chemistry," Tetrahedron Letters, 32(52):7679-7682 (1991)	
	VB	Meinkoth et al., "Review: Hybridization of Nucleic Acids Immobilized on solid Supports," Analytical Biochem., 138:267-284 (1984)	
	VC	Melcher et al., "Traveling-Wave Bulk Electroconvection Induced across a Temperature Gradient," Physics of Fluids, 10(6):1178-1185 (1967)	
	VD	Merrifield, R.B., "Solid Phase peptide Synthesis. I. The Synthesis of a Tetrapeptide," J.Am.Chem.Soc., 85:2149-2154 (1963)	
	VE	Michiels et al., "Molecular approaches to genome analysis: a strategy for the construction of ordered overlapping clone libraries," CABIOS, 3(3):203-10 (1987)	
	VF	Mirzabekov, A.D., "DNA sequencing by hybridization – a megasequencing method and a diagnostic tool?," TIBTECH, 12:27-32 (1994)	
	VG	Miyada et al., "Oligonucleotide Hybridization Techniques," Meth. Enzymology, 154:94-107 (1987).	
	VH	Monaco et al., "Human Genome Linking with Cosmids and Yeast Artificial Chromosomes", abstract from CSHS, pg. 50, (1989)	
	VI	Morita et al., "Direct pattern fabrication on silicone resin by vapor phase electron beam polymerization," J.Vac.Sci.Technol., B1(4):1171-1173 (1983)	
	VJ	Morrison et al., "Solution-Phase Detection of Polynucleotides Using Interacting Fluorescent Labels and Competitive Hybridization," Anal. Biochem., 183:231-244 (1989)	
	VK	Munegumi et al., "thermal Synthesis of Polypeptides from N-Boc-Amino Acid (Aspartic Acid, β-Aminoglutaric Acid) Anhydrides," Chem. Letters, pgs. 1643-1646 (1988)	
	VL	Mutter et al., "Impact of Conformation on the Synthetic Strategies for Peptide Sequences," pgs. 217-228 from Chemistry of Peptides and Proteins, Vol. 1, Proceedings of the Third USSR-FRG Symp., in USSR (1982)	

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	VM	Nakamori et al., "A Simple and Useful Method for Simultaneous Screening of Elevated Levels of Expression of a Variety of Oncogenes in Malignant Cells," Jpn. J. Cancer Res., 79:1311-1317 (1988)	
	VN	Nederlof et al., "Multiple Fluorescence In Situ Hybridization," Cytometry, 11:126-131 (1990)	
	VO	Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," Cytometry, 10:20-27 (1989).	
	VP	Nizetic et al., "An improved bacterial colony lysis procedure enables direct DNA hybridisation using short (10, 11 bases) oligonucleotides to cosmids," Nuc. Acids Res., 19(1):182 (1990).	
	VQ	Nizetic et al., "Construction, arraying, and high-density screening of large insert libraries of human chromosomes X and 21: their potential use as reference libraries," PNAS, 88:3233-3237 (1991).	
	VR	Nyborg, W., "Acoustic Streaming," chapter 11 pgs. 265-329 from Physical Acoustics, Principles and Methods, Mason, eds., vol. II, part B, Academic Press, New York and London (1965)	
	VS	Ocvirk et al., "High Performance Liquid Chromatography Partially Integrated onto a Silicon Chip," Analyt. Meth. Instrumentation, 2(2):74-82 (1995)	
	VT	Ohtsuka et al., "Studies on transfer ribonucleic acids and related compounds. IX Ribonucleic oligonucleotide synthesis using a photosensitive 0-nitrobenzyl protection at the 2' –hydroxl group," Nuc.Acids.Res., 1(10):1351-1357 (1974)	
	VU	Olefirowicz et al., "Capillary Electrophoresis for Sampling Single Nerve Cells," Chimia, 45(4):106-108 (1991)	
	VV	Olson et al., "Random-clone strategy for genomic restriction mapping in yeast," PNAS, 83:7826-7830 (1986).	
	VW	Patchornik et al., "Photosensitive Protecting Groups," J.Am.Chem.Soc., 92(21):6333-6335 (1970)	
	VX	Patent Abstracts of Japan from EPO, Abst. 13:557, JP 1-233 447 (1989)	
	VY	Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," PNAS, 91:5022-26 (1994)	
	VZ	Pevzner, P.A., "DNA Physical Mapping and Alternating Eulerian Cycles in Colored Grapes," Algorithmica, 13(1-2):77-105 (1995).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 29 of 36

Complete if Known	
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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PP	WA	Pevzner et al., "Multiple Filtration and Approximate Pattern Matching," Algorithmica, 13(1-2):135-154 (1995).	
	WB	Pevzner et al., "Generalized Sequence Alignment and Duality," Adv. Applied Math., 14:139-171 (1993).	
	WC	Pevzner, P.A., "1-Tuple DNA Sequencing: Computer Analysis," J. Biomol. Struct. Dynam., 7(1):63-69 (1989)	
	WD	Pfahler et al., "Liquid Transport in Micron and Submicron Channels," Sensors and Actuators, A21-A23:431-4 (90)	
	WE	Pfeifer et al., "Genomic Sequencing and Methylation Analysis by Ligation Mediated PCR," Science, 246:810-813 (1989).	
	WF	Pidgeon et al., "Immobilized Artificial Membrane Chromatography: Supports Composed of Membrane Lipids," Anal. Biochem., 176:36-47 (89)	
	WG	Pillai, V.N., "Photoremovable Protecting Groups in Organic Synthesis," Synthesis, pgs. 1-26 (1980)	
	WH	Pillai et al., "3-Nitro-4-Aminomethylbenzoylderivate von Polyethylenglykolen: Eine neue Klasse von Photosensitiven loslichen Polymeren Tragern zur Synthese von C-terminalen Peptidamiden," Tetrah. ltr., # 36 p. 3409-3412 (1979)	
	WI	Pillai et al., "Synthetic Hydrophilic Polymers, Biomedical and Chemical Applications," Naturwissenschaften, 68:558-566 (1981)	
	WJ	Pirrung et al., "Proofing of Photolithographic DNA Synthesis with 3'.5'-Dimethoxybenzoinyloxycarbonyl-Protected Deoxynucleoside Phosphoramidites," J. Org. Chem., 63(2):241-246 (1998)	
	WK	Pirrung et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," J. Org. Chem., 60:6270-6276 (1995)	
	WL	Ploax et al., "Cyclization of peptides on a solid support," Int. J. Peptide Protein Research, 29:162-169 (1987)	
	WM	Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization," Clin. Chem., 31(9):1428-1443 (1985)	
✓	WN	Poustka et al., "Molecular Approaches to Mammalian Genetics," Cold Spring Harbor Symposia on Quantitive Biology, 51:131-139 (1986)	

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PP	WO	Purushothaman et al., "Synthesis of 4,5-diarylimidazoline-2-thiones and their photoconversion to bis(4,5-diarylimidazol-2-yl) sulphides," Ind. J. Chem., 29B:18-21 (1990)	
	WP	Quesada et al., "High-Sensitivity DNA Detection with a Laser-Exited Confocal Fluorescence Gel Scanner," Biotechniques, 10:616 (1991)	
	WQ	Reichmanis et al., "o-Nitrobenzyl Photochemistry: Solution vs. Solid-State Behaviour," J. Polymer Sci. Polymer Chem. Edition, 23:1-8 (1985)	
	WR	Renz et al., "A colorimetric method for DNA hybridization," Nuc. Acids Res., 12(8):3435-3445 (1984).	
	WS	Richter et al., "An Electrohydrodynamic Micropump," IEEE, pgs. 99-104 (1990)	
	WT	Richter et al., "Electrohydrodynamic Pumping and Flow Measurement," IEEE, pgs. 271-276 (1991)	
	WU	Richter et al., "A Micromachined electrohydrodynamic (EHD) pump," Sensors and Actuators, A29:159-168 (91)	
	WV	Robertson et al., "A General and Efficient Route for Chemical Aminoacylation of Transfer RNAs," J. Am. Chem. Soc., 113:2722-2729 (1991).	
	WW	Rodda et al., "The Antibody Response to Myoglobin-I. Systematic Synthesis of Myglobin Peptides Reveals Location and Substructure of Species-Dependent Continuous Antigenic Determinants," Mol. Immunol., 23(6):603-610 (1986)	
	WX	Rodgers, R.P., "Data Processing of Immunoassay Results," Manual of Clin. Lab. Immunol., 3rd ed., ch. 15, pgs. 82-87 (1986)	
	WY	Rose, D.J., "Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis," J. Chromatography, 540:343-353 (1991)	
	WZ	Rovero et al., "Synthesis of Cylic Peptides on solid Support," Tetrahed. Letters, 32(23):2639-2642 (1991)	
	XA	Sambrook, Molecular Cloning – A Laboratory Manual, publ. in 1989 (not included)	
✓	XB	Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes," PNAS, 86:6230-6234 (1989)	

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PP	XC	Saiki et al., "Analysis of enzymatically amplified β-globin and HLA-DQα DNA with Allele-specific oligonucleotide probes," Nature, 324:163-166 (1986)	
	XD	Schafer et al., "DNA fingerprinting using non-radioactive oligonucleotide probes specific for simple repeats," Nuc. Acids Res., 16(19):9344 (1988).	
	XE	Scharf et al., "HLA class II allelic variation and susceptibility to pemphigus vulgaris," PNAS, 85(10):3504-3508 (1988)	
	XF	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," PNAS, 93:10614-10619 (1996).	
	XG	Schuup et al., "Mechanistic Studies of the Photorearrangement of o-Nitrobenzyl Esters," J. Photochem., 36:85-97 (1987)	
	XH	Seed, B., "Diazotizable arylamine cellulose papers for the coupling and hybridization of nucleic acids," Nuc. Acids Res., 10(5):1799-1810 (1982).	
	XI	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficency," Anal. Chem., 65:1481-1488 (1993)	
	XJ	Seller et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," Anal. Chem., 66:3485-3491 (1994)	
	XK	Semmelhack et al., "Selective Removal of Protecting Groups Using Controlled Potential Electrolysis," J. Am. Chem. Society, 94(14):5139-5140 (1972)	
	XL	Sheldon et al., "Matrix DNA Hybridization," Clinical Chemistry, 39(4):718-719 (1993)	
	XM	Shin et al., "Dehydrooligonpeptides. XI. Facile Synthesis of Various Kinds of Dehydrodi- and tripeptides, and Dehydroenkephalins Containing Tyr Residue by Using *N*-Carboxydehydrotyrosine Anhydride," Bull. Chem. Soc. Jpn., 62:1127-1135 (1989)	
	XN	Sim et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families," Cell, 18:1303-1316 (1979)	
	XO	Smith et al., "A Novel Method for Delineating Antigenic Determinants: Peptide Synthesis and Radioimmunoassay Using the Same Solid Support," Immunochemistry, 14:565-568 (1977)	
✓	XP	Sofia, M.J., "Carbohydrate-based combinatorial libraries," Molecular Diversity, 3:75-94 (1998).	

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PP	XQ	Southern et al., "Report on the Sequencing by Hybridization Workshop," Genomics, 13:1378-1383 (1992)	
	XR	Southern et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized *in situ*," Nuc. Acids Res., 20(7):1679-1684 (1992)	
	XS	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," Genomics, 13:1008-10017 (1992).	
	XT	Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," J. Mol. Biol., 98:503-517 (1975).	
	XU	**Southern et al., "Parallel synthesis and analysis of large numbers of related chemical compounds: applications to oligonucleotides," J. Biotechnology, 35:217-227 (1994).**	
	XV	Stemme et al., "A valveless diffuser/nozzle-based fluid pump," Sensors and Actuators, A39:159-167 (1993)	
	XW	Stryer, L., "DNA Probes and Genes Can be Synthesized by Automated Solid-Phase Methods," from *Biochemistry*, Third Edition, published by W.H. Freeman & Co., (1988)	
	XX	Stuber et al., "Synthesis and photolytic cleavage of bovine insulin B22-30 on a nitrobenzoylglycyl-poly (ethylene glycol) support," Int. J. Peptide Protein Res., 22(3):277-283 (1984)	
	XY	Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," J. Am. Chem. Soc., 117(49):12050-12057 (1995)	
	XZ	Swedberg, S.A., "Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis, An apparent micellar electrokinetic capillary chromatography mechanism," J. Chromatography, 503:449-452 (1990)	
	YA	Thomas, P.S., "Hybridization of denatured RNA and small DNA fragments transferred to nitrocellulose," PNAS, 77(9):5201-5205 (1980).	
	YB	Titus et al., "Texas Red, a Hydrophilic, red-emitting fluorophore for use with fluorescein in dual parameter plow microfluorometric and fluorescence microscopic studies," J. Immunol. Meth., 50:193-204 (1982)	
	YC	Tkachuk et al., "Detection of *bcr-abl* Fusion in chronic Myelogeneous Leukemia by in situ Hybridization," Science, 250:559-562 (90)	
✓	YD	Trzeciak et al., "Synthesis of 'Head-to-Tail' Cyclized Peptides on Solid Support by FMOC Chemistry," Tetrahed. Letters, 33(32):4557-4560 (1992)	

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PP	YE	Tsien et al., "Control of Cytoplasmic Calcium with Photolabile Tetracarboxylate 2-Nitrobenzhydrol Chelators," Biophys. J., 50:843-853 (1986)	
	YF	Tsutsumi et al., "Expression of L- and M- Type Pyruvate Kinase in Human Tissues," Genomics, 2:86-89 (1988)	
	YG	Turchinskii et al., "Multiple Hybridization in Genome Analysis, Reaction of Diamines and Bisulfate with Cytosine for Introduction of Nonradioactive labels Into DNA," Molecular Biology, 22:1229-1235 (1988)	
	YH	Turner et al., "Photochemical Activation of Acylated α-Thrombin," J. Am. Chem. Soc., 109:1274-1275 (1987)	
	YI	Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum," Gene, 61:253-264 (1987)	
	YJ	Urdea et al., "A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes," Nuc. Acids Res., 16(11):4937-4956 (1988)	
	YK	Van der Voort et al., "Design and Use of a Computer Controlled Confocal Microscope for Biological Applications," Scanning, 7(2):66-78 (1985)	
	YL	Van Hijfte et al., "Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of -Coriolin," J. Organic Chemistry, 50:3942-3944 (1985)	
	YM	Veldkamp, W.B., "Binary optics: the optics technology of the 1990s," CLEO 90, Vol. 7, paper # CMG6 (1990)	
	YN	Verlaan-de Vries et al., "A dot-blot screening procedure for mutated *ras* oncogenes using synthetic oligodeoxynucleotides," Gene, 50:313-320 (1986)	
	YO	Verpoorte et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," J. Micromech. Microeng., 4:246-256 (1994)	
	YP	**Viegas-Pequignot et al., "Mapping of single-copy DNA sequences on human chromosomes by *in situ* hybridization with biotinylated probes: Enhancement of detection sensitivity by intensified-fluorescence digital-imaging microscopy," PNAS, 86:582-586 (1989).**	
	YQ	Volkmuth et al., "DNA electrophoresis in microlithographic arrays," Nature, 358:600-602 (1992)	
✓	YR	Voss et al., "The immobilization of oligonucleotides and their hybridization properties," Biochem. Soc. Transact., 16:216-217 (1988)	

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PP	YS	Wada, A., *International Workshop on Automatic and High Speed DNA Base Sequencing*, Hayashibara Forum 1987 at Hayashibara Biochemical Laboratories, Okayama, Japan, July 7-9, 1987.	
	YT	Walker et al., "Photolabile Protecting Groups for an Acetylcholine Receptor Ligand. Synthesis and Photochemistry of a New Class of o-Nitrobenzyl Derivatives and their Effects on Receptor Function," Biochemistry, 25:1799-1805 (1986)	
	YU	Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit β-globoin DNA," Nuc. Acids Res., 9(4):879 (1981).	
	YV	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to Φχ 174 DNA: the effect of single base pair mismatch," Nuc. Acids Res., 11(6):3543-3557 (1979)	
	YW	Washizu et al., "Handling Biological Cells Using a Fluid Integrated Circuit," IEEE Transactions Industry Applications, 26(2):352-358 (1990)	
	YX	Wiedmann, M. et al., "Ligase Chain Reaction (LCR) - Overview and Applications," PCR Meth. Appl., 3(4):S51-S64 (1994).	
	YY	Werner et al., "Size-Dependent Separation of Proteins Denatured in SDS by Capillary Electrophoresis Using a Replaceable Sieving Matrix," Anal. Biochem., 212:253-258 (1993)	
	YZ	White et al., "An Evaluation of Confocal Versus Conventional Imaging of Biological Structures by Fluorescence Light Microscopy," J. Cell Biol., 105(1):41-48 (1987)	
	ZA	Widacki et al., "Biochemical Differences in Qa-2 Antigens Expressed by Qa-2+,6+ and Qa-2a+,6- Strains. Evidence for Differential Expression of the *Q*7 and *Q*9 Genes," Mol. Immunology, 27(6):559-570 (1990)	
	ZB	Wilcox et al., "Synthesis of Photolabile 'Precursors' of Amino Acid Neurotransmitters," J. Org. Chem., 55:1585-1589 (1990)	
	ZC	Wilding et al., "PCR in a Silicon Microstructure," Clin. Chem., 40(9):1815-1818 (1994)	
	ZD	Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," Clin. Chem., 40(1):43-47 (1994)	
	ZE	Wittman-Liebold, eds., Methods in Protein Sequence Analysis, from Proceedings of 7th Int'l Conf., Berlin, Germany, 7/3-8/88, table of contents, pp. xi-xx* (1989)	
✓	ZF	Wood et al., "Base composition-independent hybridization in tetramethylammonium chloride: A method for oligonucleotide screening of highly complex gene libraries," PNAS, 82:1585-1588 (1985).	

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First Named Inventor	Fodor
Art Unit	~~1627~~ 1639
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
PP	ZG	Woolley et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," PNAS, 91:11348-11352 (1994)	
	ZH	Wu et al., "Synthesis and Properties of Adenosine-5'-triphosphoro-γ-5-(5-sulfonic acid)naphthyl Ethylamidate: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from *Escherichia coli*," Arch. Biochem. Biophys., 246(2):564-571 (1986)	
	ZI	Wu et al., "Laboratory Methods, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using *In Situ* Dot Hybridization," DNA, 8(2):135-142 (1989)	
	ZJ	Yamamoto et al., "Features and applications of the laser scanning microscope," J. Mod. Optics, 37(11):1691-1701 (1990)	
	ZK	Yarbrough et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," J. Biol. Chem., 254(23):12069-12073 (1979)	
	ZL	Yosomiya et al., "Performance, Glass fiber Having Isocyanate Group on the Surface. Preparation and Reaction with Amino Acid," Polymer Bulletin, 12:41-48 (1984)	
	ZM	Young, W.S.,"Simultaneous Use of Digoxigenin- and Radiolabeled Oligodeoxyribonucleotide Probes for Hybridization Histochemistry," Neuropeptides, 13:271-275 (1989)	
	ZN	Yue et al., "Miniature Field-Flow Fractionation System for Analysis of Blood Cells," Clin. Chem., 40(9):1810-1814 (1994)	
	ZO	Zehavi et al., "Light-Sensitive Glycosides. I. 6-Nitroveratryl β-D-Glucopyranoside and 2-Nitrobenzyl β-D-Glucopyranoside," J. Org. Chem., 37(14):2281-2285 (1972)	
	ZP	Zengerle et al., "Transient measurements on miniaturized diaphragm pumps in microfluid systems," Sensors and Actuators, A46-47:557-561 (1995)	
	ZQ	Zischler et al., "Non-radioacive oligonucleotide fingerprinting in the gel," Nuc. Acids Res., 17(11)4411 (1989).	
	ZR	Zischler et al., "Digoxigenated oligonucleotide probes specific for simple repeats in DAN fingerprinting and hybridization in situ," Hum. Genet., 82:227-233 (1989).	
✓	ZS	Sequencing by Hybridization Workshop, listing of participants and workshop presentation summaries, from workshop held 11/19-20/91.	
	ZT	"A Sequencing Reality Check," Science, 242:1245 (1988)	

Examiner Signature		Date Considered	2/27/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 36 of 36

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PP	ZU	"Affymax raises $25 million to develop high-speed drug discovery system," Biotechnology News, 10(3):7-8 (1990)	
PP	ZV	"Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," Bioorg Khim, 12(11):1508-1513 (1986)	

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